

| | Type | Hits | Search Text | DBs | Time Stamp |
|----|------|------|--|---|------------------|
| 1 | BRS | 139 | S1 and 'pump' and ('gate' or 'valve') | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | 2004/12/13 12:22 |
| 2 | BRS | 11 | S2 and (('flood' and 'drain') or ('ebb' and 'flow')) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | 2004/12/13 12:21 |
| 3 | IS&R | 1046 | ((47/59R) or (47/60) or (47/62R) or (47/62C) or (47/62E) or (47/63) or (47/62N)).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | 2004/12/13 11:33 |
| 4 | IS&R | 980 | (47/48.5).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | 2004/12/13 11:34 |
| 5 | BRS | 867 | S6 not S5 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | 2004/12/13 11:47 |
| 6 | IS&R | 1166 | ((47/79) or (47/82)).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | 2004/12/13 11:34 |
| 7 | BRS | 145 | S5 and 'pump' | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | 2004/12/13 11:47 |
| 8 | BRS | 78 | S7 and 'pump' | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | 2004/12/13 11:47 |
| 9 | BRS | 78 | S9 not S8 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | 2004/12/13 11:54 |
| 10 | BRS | 194 | A01G031/06.ipc. | EPO; JPO; DERWENT | 2004/12/13 12:14 |
| 11 | BRS | 190 | S12 not S1 | EPO; JPO; DERWENT | 2004/12/13 11:54 |
| 12 | BRS | 1602 | A01G031/02.ipc. | EPO; JPO; DERWENT | 2004/12/13 12:20 |
| 13 | BRS | 6 | S14 and (('flood' and 'drain') or ('ebb' and 'flow')) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | 2004/12/13 12:30 |
| 14 | BRS | 6 | S14 and (('flood' and 'drain') or ('ebb' and 'flow')) | EPO; JPO; DERWENT | 2004/12/13 12:15 |
| 15 | BRS | 33 | S14 and 'pump' and ('gate' or 'valve') | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | 2004/12/13 12:17 |
| 16 | BRS | 5019 | A01G031/00.ipc. | EPO; JPO; DERWENT | 2004/12/13 12:20 |
| 17 | BRS | 9 | S18 and (('flood' and 'drain') or ('ebb' and 'flow')) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | 2004/12/13 12:21 |
| 18 | BRS | 9 | S18 and (('flood' and 'drain') or ('ebb' and 'flow')) | EPO; JPO; DERWENT | 2004/12/13 12:21 |

| | Type | Hits | Search Text | DBs | Time Stamp |
|----|------|------|--|---|------------------|
| 19 | BRS | 49 | S18 and 'pump' and ('gate' or 'valve') | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | 2004/12/13 12:22 |
| 20 | BRS | 45 | S21 not S17 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | 2004/12/13 12:22 |
| 21 | BRS | 16 | 'hydroponic' and 'pump' and 'light' and (('flood' and 'drain') or ('ebb' and 'flow')) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | 2004/12/13 12:31 |
| 22 | IS&R | 12 | ((("5307589") or ("4255896") or ("4302906") or ("5337515") or ("5860247") or ("6219966") or ("6247268") or ("5385590") or ("4630394") or ("5146709") or ("5394647") or ("5887383"))).PN. | USPAT | 2004/12/13 14:30 |
| 23 | BRS | 10 | ("4021964" "4211034" "4255896" "4279101" "4310990" "4533083" "4926585" "5252108" "5287652" "5394647").PN. | US-PGPUB; USPAT; USOCR | 2004/12/13 14:31 |
| 24 | BRS | 11 | ("4310990" "4399634" "4669217" "4976064" "5010686" "5067275" "5381626" "5385589" "5394647" "5557884" "5996280").PN. | US-PGPUB; USPAT; USOCR | 2004/12/13 14:32 |
| 25 | BRS | 7 | ("4016677" "4419842" "4447983" "4754571" "5056260" "5136804" "5394647").PN. | US-PGPUB; USPAT; USOCR | 2004/12/13 14:33 |

| | Type | Hits | Search Text | Dbs | Time Stamp |
|----|------|------|--|------------------------|------------------|
| 26 | BRS | 29 | ("1297719" "2145052" "2306027" "2388179" "3127108" "3438383" "3900134" "4107875" "4170844" "4177604" "4189867" "4211037" "4245433" "4393890" "4527353" "4669217" "4780989" "5054233" "5067275" "5269094" "5394647" "5501037" "5502923").PN. | US-PGPUB; USPAT; USOCR | 2004/12/13 14:33 |
| 27 | BRS | 17 | ("2855725" "3352057" "3660933" "4059922" "4310990" "4584791" "4953322" "4965962" "4976064" "4986027" "5010686" "5067275" "5097627" "5168664" "5269094").PN. | US-PGPUB; USPAT; USOCR | 2004/12/13 14:35 |
| 28 | BRS | 8 | ("2306027" "3243919" "4149340" "4419842" "4676023" "5127366").PN. | US-PGPUB; USPAT; USOCR | 2004/12/13 14:36 |

| Type | Hits | Search Text | Dbs | Time Stamp |
|------|-----------|--|------------------------|------------------|
| 29 | BRS 46 | ("2062755" "2188875" "2241699" "2747331" "2940218" "2983076" "3131064" "3250606" "3300895" "3305968" "3352057" "3660933" "3766684" "3889415" "3892982" "3925926" "4004369" "4033072" "4057930" "4057933" "4107875" "4170844" "4177604" "4211034" "4245434" "4302906" "4324069" "4332105" "4334386" "4371995" "4447983" "4527353" "4603506" "4813176" "4951416").PN. | US-PGPUB; USPAT; USOCR | 2004/12/13 14:37 |
| | | ("3053011" "3159413" "3552058" "3660933" "3903644" "4045909" "4334386" "5007135" "5113618").PN. | | |
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| | | ("3053011" "3159413" "3552058" "3660933" "3903644" "4045909" "4334386" "5007135" "5113618").PN. | | |
| 32 | BRS 8 | ("2837868" "4255896" "4551943" "4608776" "4884364" "4899487" "4953363").PN. | US-PGPUB; USPAT; USOCR | 2004/12/13 14:40 |

| | Type | Hits | Search Text | DBs | Time Stamp |
|----|------|------|---|------------------------|------------------|
| 33 | BRS | 17 | ("0460809" "10222616" "2278991" "2491271" "3365840" "3728254" "4185414" "4211034" "4255896" "4310990" "4324069").PN. | US-PGPUB; USPAT; USOCR | 2004/12/13 14:41 |
| 34 | BRS | 9 | ("2674828" "3468057" "3660933" "3768200" "3839198" "3955317" "4084346").PN. | US-PGPUB; USPAT; USOCR | 2004/12/13 14:42 |
| 35 | BRS | 18 | ("1222648" "2121461" "2971290" "3352057" "3365840" "3841023" "3973316" "4075785" "4083147" "4092803" "4106235" "4118891" "D243113").PN. | US-PGPUB; USPAT; USOCR | 2004/12/13 14:43 |

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PLUS Search Results for S/N 10806764, Searched December 13, 2004

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

5860247
5870854
4908985
5675932
5826374
6306645
4793096
4930253
5067275
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4437264
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5597731
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6107085

10806764_QUAL

| | |
|---------|----|
| 5860247 | 88 |
| 5870854 | 80 |
| 4908985 | 80 |
| 5675932 | 80 |
| 5826374 | 80 |
| 6306645 | 80 |
| 4793096 | 73 |
| 4930253 | 73 |
| 5067275 | 73 |
| 4608342 | 71 |
| 4900339 | 71 |
| 5209012 | 71 |
| 4437264 | 70 |
| 6087155 | 70 |
| 6569675 | 70 |
| 5010686 | 70 |
| 6000173 | 70 |
| 4315381 | 70 |
| 4830276 | 70 |
| 4899489 | 70 |
| 5430972 | 70 |
| 5525505 | 70 |
| 5597731 | 70 |
| 6022742 | 64 |
| 6107085 | 64 |

10806764 CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned

From A Search of 10806764 on December 13, 2004

| | | |
|---|-------------|--|
| 8 | 47/62R | (4 OR, 4 XR) |
| | Class 047 : | PLANT HUSBANDRY |
| | 47/59R | WATER CULTURE, APPARATUS OR METHOD |
| | 47/62R | .Nutrient recirculation system (e.g., hydroponic system) |
| 7 | 47/59R | (3 OR, 4 XR) |
| | Class 047 : | PLANT HUSBANDRY |
| | 47/59R | WATER CULTURE, APPARATUS OR METHOD |
| 5 | 47/17 | (1 OR, 4 XR) |
| | Class 047 : | PLANT HUSBANDRY |
| | 47/17 | GREENHOUSE, APPARATUS OR METHOD |
| 4 | 47/60 | (0 OR, 4 XR) |
| | Class 047 : | PLANT HUSBANDRY |
| | 47/59R | WATER CULTURE, APPARATUS OR METHOD |
| | 47/60 | .Cultivating chamber |
| 4 | 47/62E | (2 OR, 2 XR) |
| | Class 047 : | PLANT HUSBANDRY |
| | 47/59R | WATER CULTURE, APPARATUS OR METHOD |
| | 47/62R | .Nutrient recirculation system (e.g., hydroponic system) |
| | 47/62E | ..Ebb and Flow systems |
| 4 | 47/64 | (0 OR, 4 XR) |
| | Class 047 : | PLANT HUSBANDRY |
| | 47/59R | WATER CULTURE, APPARATUS OR METHOD |
| | 47/64 | .Porous support |
| 4 | 435/297.5 | (0 OR, 4 XR) |
| | Class 435 : | CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY |
| | 435/283.1 | APPARATUS |
| | 435/289.1 | .Bioreactor |
| | 435/297.1 | ..Including semipermeable membrane or filter |
| | 435/297.5 | ...In combination with a dish, plate, or tray |
| 3 | 47/62C | (1 OR, 2 XR) |
| | Class 047 : | PLANT HUSBANDRY |
| | 47/59R | WATER CULTURE, APPARATUS OR METHOD |

10806764 CLSTITLES

47/62R .Nutrient recirculation system (e.g.,
hydroponic system)

47/62C ..Channel

3 435/289.1 (0 OR, 3 XR)
Class 435 : CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY

435/283.1 APPARATUS
435/289.1 .Bioreactor

2 47/61 (0 OR, 2 XR)
Class 047 : PLANT HUSBANDRY
47/59R WATER CULTURE, APPARATUS OR METHOD
47/60 .Cultivating chamber
47/61 ..Seed germinator

2 47/63 (0 OR, 2 XR)
Class 047 : PLANT HUSBANDRY
47/59R WATER CULTURE, APPARATUS OR METHOD
47/63 .Individual support

2 47/65 (2 OR, 0 XR)
Class 047 : PLANT HUSBANDRY
47/65 DYNAMIC PLANT RECEPTACLE TRANSPORT, APPARATUS
OR METHOD

2 47/81 (0 OR, 2 XR)
Class 047 : PLANT HUSBANDRY
47/65.5 RECEPTACLE FOR GROWING MEDIUM
47/79 .Irrigator
47/81 ..Fibrous wick

2 435/284.1 (1 OR, 1 XR)
Class 435 : CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY

435/283.1 APPARATUS
435/284.1 .Differentiated tissue (e.g., organ) perfusion
or preservation apparatus

2 435/286.5 (0 OR, 2 XR)
Class 435 : CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY

435/283.1 APPARATUS
435/286.1 .Including condition or time responsive contro
means
435/286.5 ..Including liquid flow, level, or volume
control

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- 2 435/294.1 (0 OR, 2 XR)
 Class 435 : CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY
- 435/283.1 APPARATUS
 435/289.1 .Bioreactor
 435/294.1 ..Vessels or trays in series
- 2 435/297.1 (1 OR, 1 XR)
 Class 435 : CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY
- 435/283.1 APPARATUS
 435/289.1 .Bioreactor
 435/297.1 ..Including semipermeable membrane or filter
- 2 435/299.1 (1 OR, 1 XR)
 Class 435 : CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY
- 435/283.1 APPARATUS
 435/289.1 .Bioreactor
 435/299.1 ..Including solid extended fluid contact
 reaction surface
- 2 435/303.1 (0 OR, 2 XR)
 Class 435 : CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY
- 435/283.1 APPARATUS
 435/289.1 .Bioreactor
 435/303.1 ..Incubator
- 2 435/304.2 (1 OR, 1 XR)
 Class 435 : CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY
- 435/283.1 APPARATUS
 435/289.1 .Bioreactor
 435/304.1 ..Bottle, tube, jar, or flask
 435/304.2 ...Including multiple internal compartments fo
 baffles
- 2 435/809 (0 OR, 2 XR)
 Class 435 : CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY
- 435/809 INCUBATORS OR RACKS OR HOLDERS FOR CULTURE
 PLATES OR CONTAINERS

10806764_CLS

Most Frequently Occurring Classifications of Patents Returned
From A Search of 10806764 on December 13, 2004

Original Classifications

| | |
|---|--------|
| 4 | 47/62R |
| 3 | 47/59R |
| 2 | 47/62E |
| 2 | 47/65 |

Cross-Reference Classifications

| | |
|---|-----------|
| 4 | 47/17 |
| 4 | 47/59R |
| 4 | 47/60 |
| 4 | 47/62R |
| 4 | 47/64 |
| 4 | 435/297.5 |
| 3 | 435/289.1 |
| 2 | 47/61 |
| 2 | 47/62C |
| 2 | 47/62E |
| 2 | 47/63 |
| 2 | 47/81 |
| 2 | 435/286.5 |
| 2 | 435/294.1 |
| 2 | 435/303.1 |
| 2 | 435/809 |

Combined Classifications

| | |
|---|-----------|
| 8 | 47/62R |
| 7 | 47/59R |
| 5 | 47/17 |
| 4 | 47/60 |
| 4 | 47/62E |
| 4 | 47/64 |
| 4 | 435/297.5 |
| 3 | 47/62C |
| 3 | 435/289.1 |
| 2 | 47/61 |
| 2 | 47/63 |
| 2 | 47/65 |
| 2 | 47/81 |
| 2 | 435/284.1 |
| 2 | 435/286.5 |
| 2 | 435/294.1 |
| 2 | 435/297.1 |
| 2 | 435/299.1 |
| 2 | 435/303.1 |

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2 435/304.2
2 435/809